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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/800,012	03/05/2001	Jose L. Cervantes	10007303-1	5210

7590 03/15/2004

HEWLETT-PACKARD COMPANY
Intellectual Property Administration
P.O. Box 272400
Fort Collins, CO 80527-2400

EXAMINER

VO, TIM T

ART UNIT	PAPER NUMBER
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2112

DATE MAILED: 03/15/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/800,012

Applicant(s)

CERVANTES, JOSE L.

Examiner

Tim T. Vo

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 January 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-35 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-29 and 32-35 is/are allowed.
- 6) ☒ Claim(s) 30-31 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

Part III DETAILED ACTION

Notice to Applicant(s)

This application has been examined. Claims 1-35 are pending.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. § 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 30-31 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Lin patent number 5,717,957 referred hereinafter "Lin" in view of Rathonyi et al. patent number 6,359,877 referred hereinafter "Rathonyi".

As for claims 30-31, Lin teaches an inkjet printer comprising:

a printer system integrated onto a printer ASIC (see figure 1, P1-P2 ports and column 2 lines 49-65, wherein printers connecting to the P1 and P2 ports);

a scanner system (see figure 1, P3 port and column 2 lines 49-65, wherein scanner connecting to the P3 port);

an input/output (I/O) system (see figures 1-2 and column 2 lines 57-60, wherein the I/O system is the I/O card within the personal computer system);

a switch fabric IO bus providing a point-to-point dedicated interconnection between the printer system, the scanner system, the IO system which permits the data transfer between the printer system and the IO system (see figure 1, switch 30 and

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column 2 line 65 to column 4 line 33, wherein the I/O card connecting to the port1 or LPT1-2 in order to transfer control instruction signals to the decoder 10 for processing. Further, the decoder 10 processed the instruction signals and transmits control signal to the selection circuit 20 for selecting output from 1A and 1B of the decoder 10 and last the switch 30 is a point to point interconnection for switching connection to the printer, scanner, I/O card, decoder 10).

Lin does not expressly teach wherein data transferring between the I/O card, printer, scanner, decoder 10, selection circuit 20 and switch 30 in packet based. Column 1 lines 23-26, Lin suggested several ways to improve computer environment, such as data transmission, demand quantity, data processing speed, and other properties are important to consumers but Lin fails to disclose how to improve such improvements. However, Rathonyi teaches data transmission in packet based (see column 2 lines 17-25. Therefore, it would have been obvious to a person of an ordinary skill in the art at the time the invention was made to have combined the teachings of Rathonyi into the teachings of Lin's because the teaching of Rathonyi in data transmission in packet base would increase transmission speed, which Lin fails to disclose.

Response to Arguments

2. Applicant's arguments filed 01/08/2004 have been fully considered but they are not persuasive. Claims 30-31 are not allowable over cited prior arts (Lin in view of Rathonyi) because Lin teaches peripheral device switch 100 for switching computer peripheral devices such as printers, scanner, etc., by instructions controlled by the personal computer. Figure 1, Lin discloses the switch 100 has printer ports P1, P2 and scanner port P3. Lin also teaches the PC sends instruction to the switch 100 for enable or disable peripheral devices through the I/O card LPT1 of the PC to the P1 port of the switch 100 (see column 2 lines 49-65). Based on these facts, Lin discloses a printer system integrated onto the printer ASIC (figure 1, P1-P2 disclose more than one printer is connecting to the switching 100 and wherein each printer has it's own ASIC in order to perform printing functions. Lin also teaches the PC has an I/O card integrated onto the ASIC of the PC (see column 2 lines 49-65). Further, Lin teaches the switch 100 connecting to the I/O bus to providing point-to-point connections between the printer (peripheral device) and the I/O system (I/O card from the PC) as disclose in column 5 lines 35-64). Lin does not expressly teach data transferring between peripheral devices in packet based. However, Lin suggested that there are several ways to improve computer environment such as data transmission. For this reason, it would be obvious to combine the teachings of Rathonyi for data transmission in packet based because Rathonyi would increase transmission speed as explained in the office action.

Examiner's Statement of Reasons for Allowance

3. Claims 1-29 and 32-35 are allowable over the prior of records.

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4. The following is an Examiner's statement of reasons for the indication of allowable subject matter: Claims 1, 11, 18, 25 and 32 are allowable over the prior art of record because the Examiner found neither prior art cited in its entirety, nor based on the prior art, found any motivation to combine any of the said prior arts. Prior art fails to teach apparatus and method of a multifunctional peripheral device comprising a switch for routing packet based data between the printer system, the scanner system, the IO system, and the processor system through switch IO buses, the switch IO buses providing a point-to-point dedicated interconnection between the switch and each of the printer system, the scanner system, the IO system, and the processor system.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tim T. Vo whose telephone number is 703-308-5862.

The examiner can normally be reached on 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on 703-305-4815. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Tim T. Vo
Primary Examiner
Art Unit 2112

3/11/04